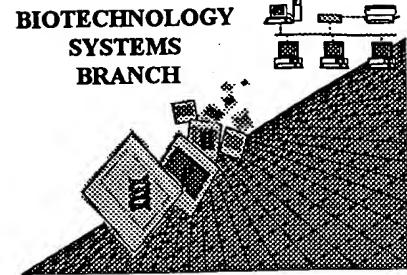


# RAW SEQUENCE LISTING

## ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/172387  
Art Unit / Team No.: 01PE  
Date Processed by STIC: 11/3/98

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

**ARTI SHAH 703-308-4212**

# Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleic	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
2 <input type="checkbox"/> Wrapped Amines	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	JAN 27 1999 GROUP 1807
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces. All text must be visible on page.	
4 <input type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.	
7 <input type="checkbox"/> Wrong Designation	Sequence(s) <input type="checkbox"/> contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped  Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence. <210> sequence Id number <400> sequence Id number 000	
10 <input type="checkbox"/> Use of N's or Xaa's (NEW RULES)	Use of N's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present.	
11 <input type="checkbox"/> Use of <213>Organism (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing this mandatory field or its response.	
12 <input type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Sequence Rules)	
13 <input type="checkbox"/> Wrong Format	File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.	AKS-Biotechnology Systems Branch- 7/10/98

JAN 27 1999

GROUP 1800

DATE: 11/03/1998

TIME: 15:49:48

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/177,387

Input Set: I177387.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

1 <110> APPLICANT: Hartley, James L.  
 2 Brasch, Michael A.  
 3 Temple, Gary F.  
 4 Fox, Donna K.  
 5 <120> TITLE OF INVENTION: Recombinational Cloning Using Nucleic Acids Having  
 6 Recombination Sites  
 7 <130> FILE REFERENCE: 0942.2850004  
 8 <140> CURRENT APPLICATION NUMBER: US/09/177,387  
 9 <141> CURRENT FILING DATE: 1998-10-23  
 10 <150> EARLIER APPLICATION NUMBER: US 60/065,930  
 11 <151> EARLIER FILING DATE: 1997-10-24  
 12 <160> NUMBER OF SEQ ID NOS: 60  
 13 <170> SOFTWARE: PatentIn Ver. 2.0  
 14 <210> SEQ ID NO 1  
 15 <211> LENGTH: 25  
 16 <212> TYPE: DNA  
 17 <213> ORGANISM: Unknown  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
 20 products  
 21 <400> SEQUENCE: 1 *item 10 on End Summary Sheet* 25  
 22 rkycwgcttt yktrtacmaa stsgb  
 23 <210> SEQ ID NO 2  
 24 <211> LENGTH: 25  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Unknown  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
 29 products  
 30 <400> SEQUENCE: 2 *item 10* 25  
 31 agccwgcttt yktrtacmaa ctsgb  
 32 <210> SEQ ID NO 3  
 33 <211> LENGTH: 25  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Unknown  
 36 <220> FEATURE:  
 37 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
 38 products  
 39 <400> SEQUENCE: 3 *item 10* 25  
 40 gttcagcttt cktrtacmaa ctsgb  
 41 <210> SEQ ID NO 4  
 42 <211> LENGTH: 25  
 43 <212> TYPE: DNA  
 44 <213> ORGANISM: Unknown

Does Not Comply  
Corrected Diskette Needed

W--&gt;

W--&gt;

W--&gt;



PAGE: 2

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/177,387DATE: 11/03/1998  
TIME: 15:49:48

Input Set: I177387.RAW

45 <220> FEATURE:  
46 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
47 products  
48 <400> SEQUENCE: 4 *item 10* 25  
49 agccwgcttt ckrtacnaa gtsgb  
50 <210> SEQ ID NO 5  
51 <211> LENGTH: 25  
52 <212> TYPE: DNA  
53 <213> ORGANISM: Unknown  
54 <220> FEATURE:  
55 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
56 products  
57 <400> SEQUENCE: 5 *item 10* 25  
58 gttcagcttt yktrtadnaa gtsgb  
59 <210> SEQ ID NO 6  
60 <211> LENGTH: 25  
61 <212> TYPE: DNA  
62 <213> ORGANISM: Unknown  
63 <220> FEATURE:  
64 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
65 products  
66 <400> SEQUENCE: 6 *item 10* 25  
67 agcctgcttt tttgtacaaa cttgt  
68 <210> SEQ ID NO 7  
69 <211> LENGTH: 25  
70 <212> TYPE: DNA  
71 <213> ORGANISM: Unknown  
72 <220> FEATURE:  
73 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
74 products  
75 <400> SEQUENCE: 7 *item 10* 25  
76 agcctgcttt cttgtacaaa cttgt  
77 <210> SEQ ID NO 8  
78 <211> LENGTH: 25  
79 <212> TYPE: DNA  
80 <213> ORGANISM: Unknown  
81 <220> FEATURE:  
82 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
83 products  
84 <400> SEQUENCE: 8 *item 10* 25  
85 acccagcttt cttgtacaaa gtgggt  
86 <210> SEQ ID NO 9  
87 <211> LENGTH: 25  
88 <212> TYPE: DNA  
89 <213> ORGANISM: Unknown  
90 <220> FEATURE:  
91 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
92 products  
93 <400> SEQUENCE: 9 *item 10* 25  
94 gttcagcttt tttgtacaaa cttgt  
○

PAGE: 3

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/177,387DATE: 11/03/1998  
TIME: 15:49:48

Input Set: I177387.RAW

95 <210> SEQ ID NO 10  
96 <211> LENGTH: 25  
97 <212> TYPE: DNA  
98 <213> ORGANISM: Unknown  
99 <220> FEATURE:  
100 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
products  
101 <400> SEQUENCE: 10  
103 gttcagctt cttgtacaaa cttgt 25  
104 <210> SEQ ID NO 11  
105 <211> LENGTH: 25  
106 <212> TYPE: DNA  
107 <213> ORGANISM: Unknown  
108 <220> FEATURE:  
109 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
products  
110 <400> SEQUENCE: 11  
112 gttcagctt cttgtacaaa gtgg 25  
113 <210> SEQ ID NO 12  
114 <211> LENGTH: 25  
115 <212> TYPE: DNA  
116 <213> ORGANISM: Unknown  
117 <220> FEATURE:  
118 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
products  
119 <400> SEQUENCE: 12  
121 agcctgctt ttgtacaaa gttgg 25  
122 <210> SEQ ID NO 13  
123 <211> LENGTH: 25  
124 <212> TYPE: DNA  
125 <213> ORGANISM: Unknown  
126 <220> FEATURE:  
127 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
products  
128 <400> SEQUENCE: 13  
130 agcctgctt ctgtacaaa gttgg 25  
131 <210> SEQ ID NO 14  
132 <211> LENGTH: 25  
133 <212> TYPE: DNA  
134 <213> ORGANISM: Unknown  
135 <220> FEATURE:  
136 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
products  
137 <400> SEQUENCE: 14  
139 acccagctt ctgtacaaa gttgg 25  
140 <210> SEQ ID NO 15  
141 <211> LENGTH: 25  
142 <212> TYPE: DNA  
143 <213> ORGANISM: Unknown  
144 <220> FEATURE:



PAGE: 4

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/177,387DATE: 11/03/1998  
TIME: 15:49:48

Input Set: I177387.RAW

145 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
146 products  
147 <400> SEQUENCE: 15  
148 gttcagctt tttgtacaaa gttgg 25  
149 <210> SEQ ID NO 16  
150 <211> LENGTH: 25  
151 <212> TYPE: DNA  
152 <213> ORGANISM: Unknown  
153 <220> FEATURE:  
154 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
155 products  
156 <400> SEQUENCE: 16  
157 gttcagctt ctgtacaaa gttgg 25  
158 <210> SEQ ID NO 17  
159 <211> LENGTH: 39  
160 <212> TYPE: DNA  
161 <213> ORGANISM: Unknown  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
164 products  
165 <400> SEQUENCE: 17  
166 ccaccacaaa cgcgtccatg gaattacact ttaatttag 39  
167 <210> SEQ ID NO 18  
168 <211> LENGTH: 39  
169 <212> TYPE: DNA  
170 <213> ORGANISM: Unknown  
171 <220> FEATURE:  
172 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
173 products  
174 <400> SEQUENCE: 18  
175 ccaccacaag tcgacgcattg ccgacagcct tccaaatgt 39  
176 <210> SEQ ID NO 19  
177 <211> LENGTH: 46  
178 <212> TYPE: DNA  
179 <213> ORGANISM: Artificial Sequence  
180 <220> FEATURE:  
181 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
182 oligonucleotide  
183 <400> SEQUENCE: 19  
184 ggccgattac gatatccaa cgaccgaaaa cctgtatccc cagggt 46  
185 <210> SEQ ID NO 20  
186 <211> LENGTH: 30  
187 <212> TYPE: DNA  
188 <213> ORGANISM: Artificial Sequence  
189 <220> FEATURE:  
190 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
191 oligonucleotide  
192 <400> SEQUENCE: 20  
193 caggtttcg gtcgttggga tatcgtaatc 30  
194 <210> SEQ ID NO 21

PAGE: 5

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/177,387DATE: 11/03/1998  
TIME: 15:49:48

Input Set: I177387.RAW

195 <211> LENGTH: 47  
196 <212> TYPE: DNA  
197 <213> ORGANISM: Artificial Sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
200 oligonucleotide  
201 <400> SEQUENCE: 21  
202 ggccagatta cgatatccca acgaccgaaa acctgtattt tcagggt 47  
203 <210> SEQ ID NO 22  
204 <211> LENGTH: 31  
205 <212> TYPE: DNA  
206 <213> ORGANISM: Artificial Sequence  
207 <220> FEATURE:  
208 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
209 oligonucleotide  
210 <400> SEQUENCE: 22  
211 caggtttcg gtcgttggga tatcgtaatc t 31  
212 <210> SEQ ID NO 23  
213 <211> LENGTH: 48  
214 <212> TYPE: DNA  
215 <213> ORGANISM: Artificial Sequence  
216 <220> FEATURE:  
217 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
218 oligonucleotide  
219 <400> SEQUENCE: 23  
220 ggc当地 agatt acgatataccc aacgaccgaa aacctgtattt ttcagggt 48  
221 <210> SEQ ID NO 24  
222 <211> LENGTH: 32  
223 <212> TYPE: DNA  
224 <213> ORGANISM: Artificial Sequence  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
227 oligonucleotide  
228 <400> SEQUENCE: 24  
229 caggtttcg gtcgttggga tatcgtaatc tt 32  
230 <210> SEQ ID NO 25  
231 <211> LENGTH: 15  
232 <212> TYPE: DNA  
233 <213> ORGANISM: Artificial Sequence  
234 <220> FEATURE:  
235 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
236 oligonucleotide  
237 <400> SEQUENCE: 25  
238 accgtttacg tggac 15  
239 <210> SEQ ID NO 26  
240 <211> LENGTH: 31  
241 <212> TYPE: DNA  
242 <213> ORGANISM: Artificial Sequence  
243 <220> FEATURE:  
244 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic

Input Set: I177387.RAW

## Line ? Error/Warning

## Original Text

22 W "N" or "Xaa" used: Feature required  
31 W "N" or "Xaa" used: Feature required  
40 W "N" or "Xaa" used: Feature required  
49 W "N" or "Xaa" used: Feature required  
58 W "N" or "Xaa" used: Feature required

rkycwgcttt yktrtacnaa stsgb  
agccwgcttt yktrtacnaa ctsgb  
gttcagcttt cktrtacnaa ctsgb  
agccwgcttt cktrtacnaa gtsgb  
gttcagcttt yktrtacnaa gtsgb